Perfect aire®

Your Source for Home Comfort

50 & 70 PINT

# DEHUMIDIFIER

## With Ejector Pump

# USER MANUAL

FOR MODEL:

3PMP50
3PMP70

Before using your dehumidifier, please read this manual carefully and keep it for future reference, along with your receipt.

Be sure to read the **Quick Start Tips** on Page 1

# Quick Start Tips

**It is highly suggested that the manual be read in full before operating the unit.** However, the notes below are especially important in helping you to properly set up and begin to use your dehumidifier.

1. The dehumidifier should be kept upright. If for any reason it has not been stored upright while in your possession, put the unit in an upright position for a minimum of 24 hours before running it.

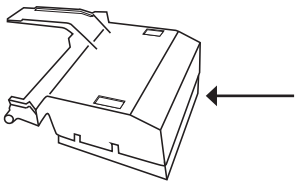
2. When first using the dehumidifier, operate the unit on **continuous mode** for 24 hours.

   *First 24 hours on Continuous Mode.*

   Cont.

3. After the first 24 hours, should you wish to set a desired humidity, you will need to take the unit off of “Continuous.” **You will not be able to select a desired humidity while the unit is set on “Continuous” mode.**
   *(NOTE: You do not need to be in "Continuous" mode to do continuous draining.)*

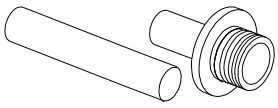
4. When unpacking the dehumidifier, note that the foam inside the float piece of the bucket should NOT be removed. Without this foam piece, the dehumidifier will not operate properly.



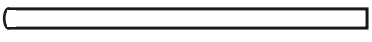
*Foam piece inside float mechanism. DO NOT REMOVE this foam piece.*

5. The accessories are located in the packaging as follows.

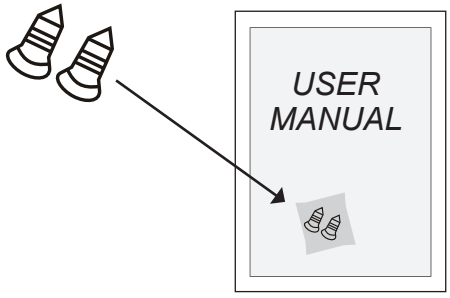
*Find the garden hose adapter and short tube inside the bucket.*



*Find the 16 ft pump hose in a clear bag taped to the side of the unit.*



*Find the screws in a pouch inside the packaging for this manual.*



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This manual provides the information needed for proper use and maintenance of this air conditioner. Basic preventative care can help extend the life of this unit. The “Troubleshooting Tips” section in this manual contains a chart with solutions to the most common problems. Referring to this section may save time and prevent the need for a service call in the event of a problem.

## ⚠ CAUTION

- Contact an authorized service technician for repair or maintenance of this unit.
- Contact an installer for installation of this unit if necessary.
- ***The dehumidifier is not intended for use by young children without supervision.*** Young children should be supervised to ensure that they do not play with the air conditioner.
- Disabled persons may require assistance with set up and usage.
- If the power cord is to be replaced, replacement work should be performed by authorized personnel only.
- Installation and repair work must be performed in accordance with the national wiring standards by authorized personnel only.

**NOTE:** *All the illustrations in this manual are for explanation purposes only. Unit purchased may be slightly different.*

The design and specifications are subject to change without prior notice for product improvement. Contact customer service for details.

## ELECTRICAL INFORMATION

- The manufacturers nameplate is located on the rear panel of the unit and contains electrical and other technical data specific to this unit.
- Be sure the unit is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock hazards.
- Your unit must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
- Ensure the receptacle is accessible after the unit installation.
- Do not use extension cords or an adaptor plugs with this unit. However, if it is necessary to use an extension cord, use an approved dehumidifier extension cord only (available at most local hardware stores).
- To avoid the possibility of personal injury, always disconnect the power supply to the unit before installing and/or servicing.

# SAFETY PRECAUTIONS

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications:

| | |
|---|---|
| ⚠⚠ **WARNING** | This symbol indicates the possibility of death or serious injury. |
| ⚠ **CAUTION** | This symbol indicates the possibility of injury or damage to property. |

Meanings of symbols used in this manual are: ⃠ **Never do this.** ❗ **Always do this.**

## ⚠ WARNING

**⃠ Do not exceed the rating of the power outlet or connection device.**
- Otherwise, it may cause electric shock or fire due to excess heat generation.

**⃠ Do not operate or stop the unit by inserting or pulling plug directly from the wall.**
- It may cause electric shock or fire due to heat generation.

**⃠ Do not damage or use an unspecified power cord.**
- It may cause electric shock or fire.

**⃠ Do not use the machine near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.**
- It may cause an explosion or fire.

**⃠ Do not modify power cord length or share the outlet with other appliances**
- It may cause electric shock or fire due to heat generation.

**⃠ Do not insert or pull out plug with wet hands.**
- It may cause electric shock.

**⃠ Do not place the unit near a heat source.**
- Plastic parts may melt and cause a fire.

**⃠ Do not drink or use the water drained from the unit.**
- It contains contaminants and could make you sick.

**❗ Disconnect the power if strange sounds, smell, or smoke comes from it.**
- It may cause fire and electric shock.

**⃠ You should never try to take apart or repair the unit by yourself.**
- It may cause failure of machine or electric shock.

**❗ Before cleaning, turn off the power and unplug the unit.**
- It may cause electrical shock or injury.

**⃠ Do not take the water bucket out during operation.**
- It will cause bucket full code to appear and can possibly cause electric shock.

## ⚠ CAUTION

**⃠ Do not cover the intake or exhaust openings with cloths or towels.**
- A lack of air flow can lead to overheating and fire.

**❗ Care should be taken when using the unit in a room with the following persons:**
- Infants, children, elderly people, and people not sensitive to humidity.

**⃠ Do not use in areas where chemicals are handled.**
- This will cause deterioration of the unit due to the dissolving of chemicals and solvents in the air.

**⃠ Do not use the unit in small spaces.**
- Lack of ventilation can cause overheating and fire.

**⃠ Never insert your finger or other foreign objects into g special care to warn children of these dangers.**
- It may cause electric shock or failure of appliance.

**⃠ Do not place heavy objects or opening. Take on the power cord; make sure that the cord is not compressed.**
- There is danger of fire or electric shock.

**⃠ Do not climb up on or sit on the unit.**
- You may be injured if you fall or if the unit falls over.

**⃠ Do not put in places where water may splash onto the unit.**
- Water may enter the unit and degrade the insulation. It may cause an electric shock or fire.

**❗ Always insert the filters securely. Clean filter once every two weeks.**
- Operation without filters may cause failure.

**❗ If water enters the unit, turn the unit off and disconnect the power; contact a qualified service technician.**
- It may cause failure of appliance or accident.

**⃠ Do not place flower vases or other water containers on top of the unit.**
- Water may spill inside the unit, causing insulation failure and electrical shock or fire.

**❗ Place the unit on a level, sturdy section of the floor.**
- If the unit falls over, it may cause water to spill and damage belongings, or cause electrical shock or fire.

# IDENTIFICATION OF PARTS

**Front**

❶ Control panel
❷ Air filter
❸ Air outlet grille
❹ Air intake grille
❺ Water bucket
❻ Handle (both sides)

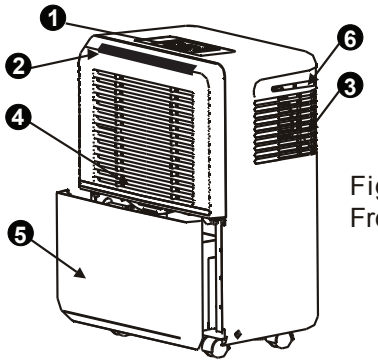



Fig. 1a - Front

**Rear**

❶ Continuous drain hose outlet
❷ Caster
❸ Power cord and plug
❹ Band (used only when storing the unit)
❺ Pump drain hose outlet

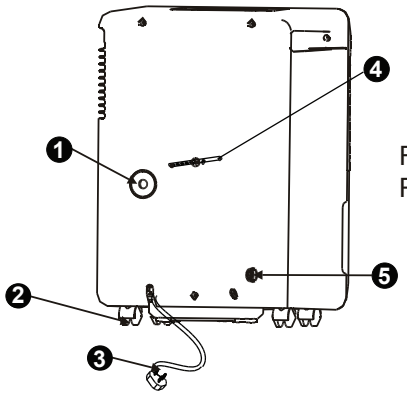



Fig. 1b - Rear

**NOTE:**
Inside the bucket, on the left side, is an "arm" mechanism that wobbles. This piece is called the "float." **DO NOT remove the foam piece** that is found in the float. See Fig. 2. If the piece is removed, the bucket will overflow.

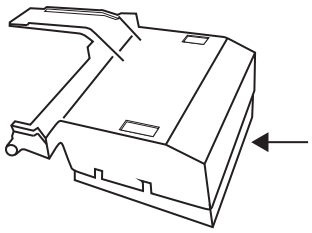
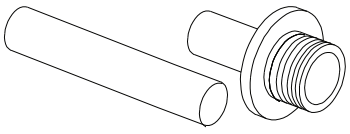


Fig. 2 - Foam piece inside float mechanism. DO NOT REMOVE the foam.

**Accessories:**

| | | |
|---|---|---|
| **Drain Hose Adaptor A with Short Hose (1 pc ea)**<br>*for continous drainage operation*<br>  <br>*Located inside the bucket.* | **16 ft long Drain Hose (1 pc)**<br>*for pump drainage operation*<br> <br>*Packaged on the side of the unit.* | **Screw (2 pcs, 4x5/8"**)<br>*for drain hose adaptor, continuous drainage operation*<br> <br>*Located in a small pouch inside the packaging of this user manual.* |

**NOTE:** For continuous drainage operation, a hose no longer than 6 ft is recommended.
See page 12 for setup instructions and hose specifications if selecting continuous drainage option.

**NOTE:** *All the illustrations in this manual are for explanation purposes only.*
*Unit purchased may be slightly different, but the operations and functions are the same.*

# DEHUMIDIFIER FEATURES

**NOTE:** *The control panel of the unit you purchased may be slightly different based on the model.*

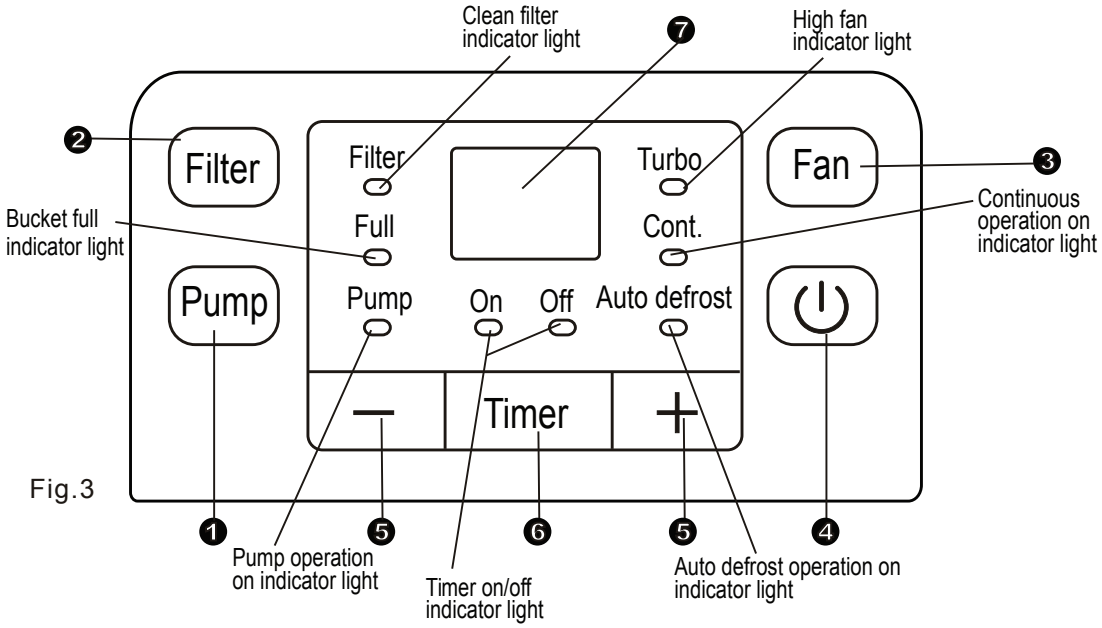



Fig.3

**CONTROL PADS**

When you push the button to change operation modes, the unit will make a beep sound to indicate that it is changing modes.

**❶ PUMP Pad**

Press to activate the pump operation.
NOTE: Make sure the pump drain hose is installed into the unit and the continuous drain hose is removed from the unit before the pump operation is activated. When the bucket is full, the pump starts to work. Refer to the next pages for removing the collected water. Do not use this operation when the outdoor temperature is equal to or less than 32°F (0°C).

**❷ FILTER Pad**

The check filter feature is a reminder to clean the air filter for more efficient operation. The Filter light (Clean Filter light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the Filter pad and the light will go off.

**❸ FAN Pad**

Controls the fan speed. Press to select either Turbo (High) or Normal fan speed. Set the fan control to Turbo for maximum moisture removal. When the humidity has been reduced and quiet operation is preferred, take the fan off of Turbo so the unit runs on Normal.

**❹ POWER Pad**

Press to turn the dehumidifier on and off.

**❺ DOWN ⊖ & UP ⊕ Pads**

***Humidity Set Control Pads***

The humidity level can be set within a range of 35% RH (Relative Humidity) to 85% RH in 5% increments. For drier air, press the ⊖ pad and set to a lower percent value (%). For damper air, press the ⊕ pad and set to a higher percent value (%).

***Timer Set Control Pads***

Use the Up/Down pads to set the Auto start and Auto stop time from 0.0 to 24 hours.

***Continuous Operation***

To run the unit in continuous mode, press the ⊖ pad until the display reads 35% RH. Then press the ⊖ pad again until the display reads “CO” for continuous operation. To stop continuous operation, press the ⊕ and set the desired % RH set point level to resume normal operation.

**NOTE: You cannot set a desired humidity while in continuous mode.** Continuous mode means the dehumidifier will run all the time and does not need a humidity setting.

**❻ TIMER Pad**

Press to initiate the auto start and auto stop feature in conjunction with the ⊕ and ⊖ pads to set desired on/off time. See next page.

**❼ Display**

Shows the actual room % humidity level in a range of 30% RH to 90% RH (5% accuracy). While setting the desired humidity or timer, shows the set % humidity level from 35% to 85% or auto start/stop time (0−24).

# DEHUMIDIFIER FEATURES (CONTINUED)

**ERROR AND PROTECTION CODES:**

**AS -** *Humidity Sensor Error* - Unplug the unit and plug it back in. If error repeats, call Perfect Aire Consumer Services. (Phone number is on the back of this manual.)

**ES -** *Temperature Sensor Error* - Unplug the unit and plug it back in. If error repeats, call Perfect Aire Consumer Services.

**P2 -** *Bucket is Full* - Empty the bucket.

**Eb -** *Bucket is removed or not in correct position* - Replace the bucket in the proper position.

**EC -** *Unit Malfunction* - Please make sure the temperature of the environment is suitable for the proper operation of the unit. The unit should be operated in an environment from 41ºF (5ºC) – 95ºF (35ºC). If the unit's location falls in this temperature range and you continue to get the EC error code, call Perfect Aire Consumer Services.

**E3 -** *Unit malfunction* - Unplug the unit and plug it back in. If error repeats, call Perfect Aire Consumer Services.

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**OTHER FEATURES**

**Bucket Full Light**
Illuminates when the bucket is ready to be emptied.

**Automatic Shut Off**
The dehumidifier shuts off when the bucket is full, removed, or not placed in the proper position. When the desired humidity setting is reached, the unit will cycle off automatically.

**Automatic Defrost**
When frost builds up on the evaporator coils, the compressor will cycle off and the fan will continue to run until the frost disappears. The unit will operate in "Turbo" fan speed during automatic defrost.

**Wait 3 Minutes Before Resuming Operation**
After the unit has stopped, it cannot begin operating again for 3 minutes. This is to protect the unit. Operation will automatically resume after 3 minutes.

**Check Filter Feature**
The check filter light will automatically flash (once per second) when the accumulated operation time reaches 250 hours of operation or more. The system starts to count the operation time once the fan motor operates. After you finish cleaning the air filter, press the Filter pad; the Filter indicator light clears.

**Automatic Restart**
If the unit breaks off unexpectedly as the result of having the power cut, it will automatically restart with the previous function setting when the power resumes.

**Setting the Timer**

***If setting the timer when the unit is on:***
First press the TIMER button; the TIMER OFF indicator light illuminates. It indicates the Auto Stop program is initiated. Press the TIMER button again; the TIMER ON indicator light illuminates. It indicates the Auto Start program is initiated.

***If setting the timer when the unit is off:***
First press the TIMER button; the TIMER ON indicator light illuminates. It indicates the Auto Start program is initiated. Press the TIMER button again; the TIMER OFF indicator light illuminates. It indicates the Auto Stop program is initiated.

- Press or hold the UP or DOWN button to change the Auto time by 0.5 hour increments, up to 10 hours then at 1 hour increments up to 24 hours. The display will count down the time remaining until start.
- The selected time will register in 5 seconds and the system will automatically revert back to displaying the previous temperature setting.
- When the start and stop times are set within the same program sequence, the TIMER ON and OFF indicator lights both illuminate, identifying both ON and OFF times are now programmed.
- Turning the unit ON or OFF at any time or adjusting the timer setting to 0.0 will cancel the Auto Start/Stop timed program.
- When the LED display window shows the code P2, the Automatic Start/Stop function will also be canceled.

**A NOTE ABOUT THE TIMER:**
**When you set the timer, the unit will only go on once and off once. If you want the dehumidifier to cycle on and off repeatedly, you do not need to set the timer. Instead, set your desired humidity and the unit will cycle on and off based on that humidity setting.**

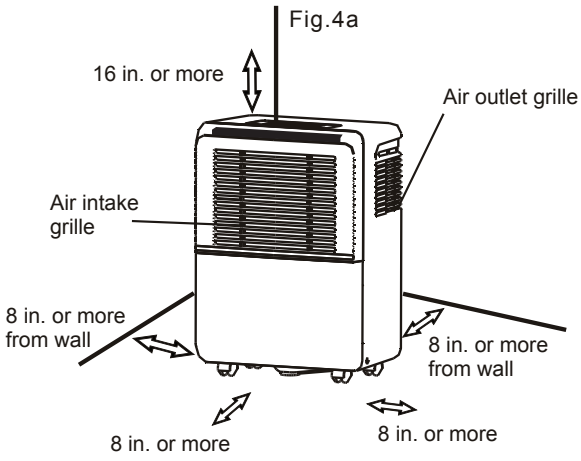
# OPERATING INSTRUCTIONS

## POSITIONING THE UNIT

A dehumidifier operating in a basement will have little or no effect in drying an adjacent enclosed storage area, such as a closet, unless there is adequate circulation of air in and out of the area.

- Do not use outdoors.
- This dehumidifier is intended for indoor residential applications only. This dehumidifier should not be used for commercial or industrial applications.
- Place the dehumidifer on a smooth, level floor strong enough to support the unit with a full bucket of water.
- Allow at least 8 inches of air space on all sides of the unit for good air circulation.
- Place the unit in an area where the temperature will not fall below 41ºF (5ºC). The coils can become covered with frost at temperatures below 41ºF (5ºC), which may reduce performance.
- Place the unit away from the clothes dryer, heater, and radiator.
- Use the unit to prevent moisture damage anywhere books or valuables are stored.
- The dehumidifier must be operated in an enclosed area to be most effective.
- Close all doors, windows and other outside openings to the room.

Fig.4a




**Casters (at four points on the bottom of unit)**

- Casters can move freely.
- Do not force casters to move over carpet, nor move the unit with water in the bucket. (The unit may tip over and spill water.)

## WHEN USING THE UNIT

- **When first using the dehumidifier, operate the unit on continuous mode for the first 24 hours.** (See "Continuous Operation" on page 5.) This helps the refrigerant settle in properly. After the first 24 hours, if you would like the unit to cycle on and off based around your desired humidity setting, take the unit off of continuous mode and use the (+) and (–) buttons to set your desired humidity. Putting the unit back on continuous mode will override any humidity setting you have set.
- This unit is designed to operate with a working environment between 41ºF (5ºC) and 95ºF (35ºC).
- If the unit has been switched off and needs to be switched on again quickly, allow approximately three minutes for the correct operation to resume.
- Do not connect the dehumidifier to a multiple socket outlet that is also being used for other electrical appliances.
- Select a suitable location, making sure you have easy access to an electrical outlet.
- Plug the unit into an electrical socket/outlet that is grounded.
- Make sure the water bucket is correctly inserted. If it is not, the unit will not operate properly.

**NOTE:** Always be careful when moving the unit, especially as the water level rises in the bucket; the higher the water level gets in the bucket, the easier it is for the unit to fall over when being moved. It is best to empty the bucket before moving the unit.

# OPERATING INSTRUCTIONS (CONTINUED)

**REMOVING THE COLLECTED WATER**

There are three ways to remove collected water:

- Use the bucket.
- Continuous draining - gravity takes water down hose into drain.
- Pump Draining - bucket fills, then pump drains water up to 16 ft.

Select only one of these draining options at a time. Using multiple options simulaneously can result in leaking.

**OPTION 1: Use the bucket**

- If the unit is off and the bucket is full, the “Full” indicator light will illuminate.
- If the unit is on and the bucket is full, the compressor and the fan will turn off, the “Full” indicator light will illuminate, and the digital display will show P2.
- Slowly pull out the bucket. Grip the left and right handles securely and carefully pull out straight so water does not spill. Do not put the bucket on the floor as the bottom of the bucket is uneven; doing so will cause the bucket to fall over and water to spill.
- Pour out the water and replace the bucket. The bucket must be secure and in the correct place for the dehumidifier to operate.
- The machine will re-start when the bucket is restored in its correct position and the unit is powered on.

1. Pull out the bucket slightly.

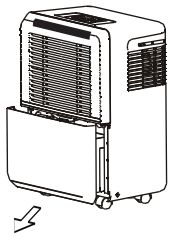


Fig.5

2. Hold both sides of the bucket with even strength and pull it out from the unit.

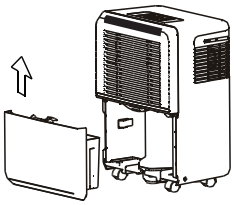


Fig.6

3. Pour the water out.

**NOTES:**

- When you remove the bucket, do not touch any parts inside of the unit. Doing so may damage the product.
- Be sure to push the bucket gently all the way into the unit. Banging the bucket against anything or failing to push it in securely may cause the unit not to operate.
- If the built-in pump hose drops (swings down) when you remove the bucket (see Fig. 7), you must swing the pump hose back up (parallel to ground) before replacing the bucket in the unit (see Fig. 8).
- If there is any water in the unit when you remove the bucket, be sure to dry it.
- If the bucket is removed when the unit is on, the compressor and the fan will turn off, the unit will beep 8 times, and the digital display will show Eb.
- If the bucket is removed when the unit is off, the unit will beep 8 times and the digital display will show Eb.

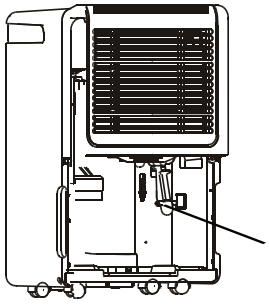


Fig. 7
Pump hose swings/drops down

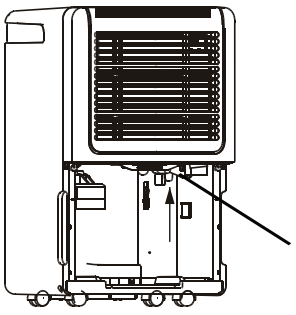


Fig. 8
Replace pump hose properly

# OPERATING INSTRUCTIONS (CONTINUED)

**OPTION 2: Continuous Draining**

Water can be automatically emptied into a floor drain by attaching a garden/dehumidifier hose (Inner Diamater ≥ 5/16", not included) with a female threaded end (Inner Diameter: M=1", not included) to the unit using adaptor A (included) and the short drain hose (included).

- Attach the short drain hose onto the adaptor A. (See Fig. 9. Adaptor and short drain hose can be found inside the bucket.)
- Remove the rubber plug from the back drain outlet of the unit, set it aside and remove the bucket. (Make sure not to lose the rubber plug as it is required should you later choose an alternate drainage option.) Insert the drain hose assembly through the drain outlet on the back of of the unit and securely press it onto the connector on the front of the unit. (See Fig. 10 and Fig. 11.)
- Tighten adaptor A to the unit by using the two screws included with the unit. These screws can be found in a pouch inside the packaging for this user manual.
- Install the female threaded end of the water hose onto adaptor A. (See Fig. 12.) Then, lead the water hose to the floor drain or a suitable drainage facility.
- Make sure the hose is secure so there are no leaks.
- Make sure there are no kinks in the hose that will stop the water from flowing.
- Place the end of the hose into the drain. The hose must be on a decline so gravity can take the water downward into the drain. Make sure the end of the hose is level or downward to the drain, never attempting to push water upwards.
- Place the bucket back in the unit, making sure it is securely in the proper place.
- Select the desired humidity setting and fan speed on the unit for continuous draining to start. (You may choose to run the unit on Continuous mode so it runs all the time. In Continuous mode, you will not be able to set a desired humidity setting.)

**NOTES:**

- When the continuous draining feature is not being used, remove the hose, Adaptor A and short hose from the continuous drain outlet and place the rubber plug back on the outlet. Failing to place the plastic cover into the outlet can cause leaking from the unit.
- A maximum hose length of 6 ft is recommended.
- If you wish to continuously drain through a clear tube (no threaded end) rather than using the short hose and Adaptor A to connect to a threaded hose, you can connect a clear tube (1/2” inner diameter, 5/8” outer diameter, max length of 6 ft) directly to the connector inside the unit as shown in Fig. 11.
- Continuous mode is different than continous draining. Continuous mode means the unit will run all the time and you cannot set a desired humidity. Continuous draining means that you are choosing to drain water downward into a drain.

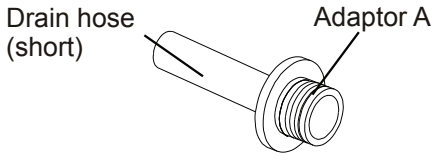


Fig.9

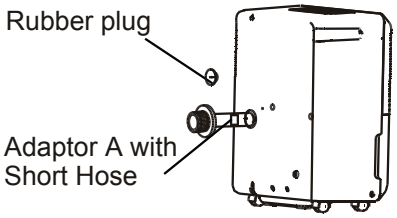


Fig.10

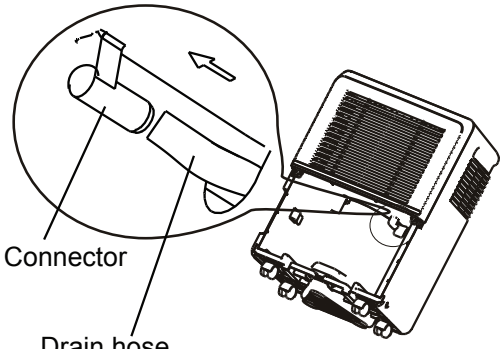


Fig.11

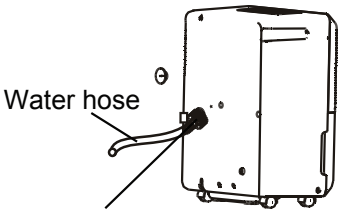


Fig.12

# OPERATING INSTRUCTIONS (CONTINUED)

**OPTION 3: Pump Draining**

Water can be automatically emptied into a floor drain or a suitable drainage facility by attaching the pump drain hose (Outer Diameter = 1/4", supplied) to the pump drain outlet.

- If you have the continuous drain hose option installed, remove it as instructed on page 8, making sure to replace the rubber plug over the continuous drain hole. (See Fig. 13). Continuous draining and pump draining should not be used simultaneously.
- Insert the 16 ft pump drain hose (enclosed) into the pump drain hose outlet at least 5/8". (See Fig. 14.) Lead the drain hose to the floor drain or a suitable drainage facility.
- Press the pump pad (button) on the control pad of the unit to activate the pump operation. When the bucket is partially full, the pump starts to work.
  ***NOTE: The pump may be very noisy for the first 3–5 minutes after it starts working. This is normal.***
- Make sure the hose is secure so there are no leaks.
- Direct the hose toward the drain, making sure that there are no kinks that will stop the water from flowing.
- Place the end of the hose into the drain. The hose iteself may be directed vertically, but make sure the *end* of the hose is level or downward. If the very end of the hose is facing upward, water may have difficulty draining.
- Select the desired humidity setting and fan speed on the unit for the unit to start. (Alternatively, you may choose to run the unit on Continuous mode so it runs all the time rather than cycling on and off based around your humidity setting. In Continuous mode, you will not be able to set a desired humidity setting.)
- The "pump operation" indicator light blinks when the pump is in operational failure. Please turn off the unit and unplug the power cord. Check the following things:
  - Clean the filter of the pump; remove the bucket from the unit, take down the pump and clean the filter of the pump by rinsing it with water. (See Fig. 15.)
  - Check that the pump drain hose is not kinked or blocked.
  - Empty the water from the bucket.
  - If the built-in pump hose drops when you remove the bucket (see Fig. 7 on page 8), you must reposition the pump hose properly in the unit before replacing the bucket in the unit. (See Fig. 8 on page 8.)
- Do not use the pump draining when the outdoor temperature is equal to or less than 32°F (0°C). Attempting to drain outdoors when the temperature is 32°F (0°C) or lower can cause water to freeze, blocking up the hose and resulting in unit failure.
- Make sure to empty the bucket once a week when using the pump draining option.
- When the pump draining feature is not being used, remove the pump drain hose from the outlet as described below.
- To remove the pump drain hose, press the pump drain hose outlet and remove the hose. (See Fig. 16.) Make sure not to let the water in the

Fig.13

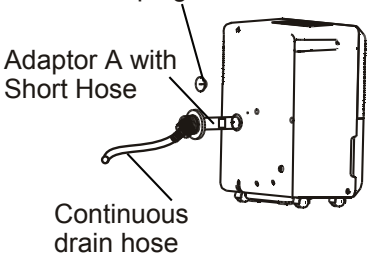



Fig.14

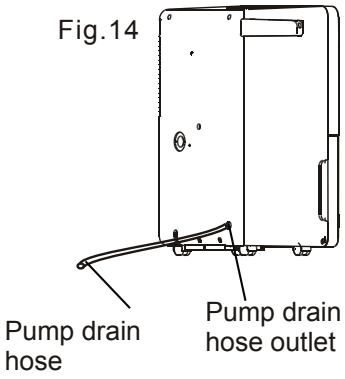



Fig.15

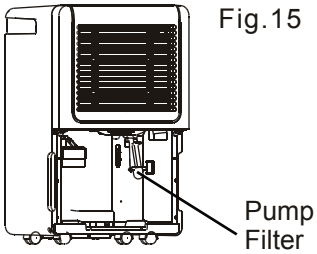
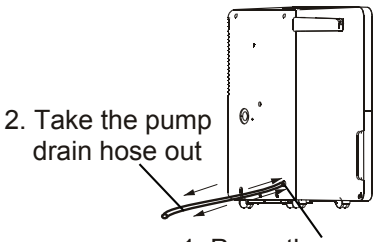



Fig.16



# CARE AND MAINTENANCE

**Turn the dehumidifier off and remove the plug from the wall outlet before cleaning.**

**1. Clean the grille and case.**

- Use water and a mild detergent. Do not use bleach or abrasives.
- Do not splash water directly onto the main unit. Doing so may cause an electrical shock, the insulation to deteriorate, or the unit to rust.
- The air intake and outlet grilles get soiled easily; use a vacuum attachment or brush to clean.

**2. Clean the bucket.**

Every few weeks, clean the bucket to prevent growth of mold, mildew and bacteria. To clean the bucket, partially fill it with clean water and add a little mild detergent. Swish it around in the bucket, empty and rinse.

**NOTES:**

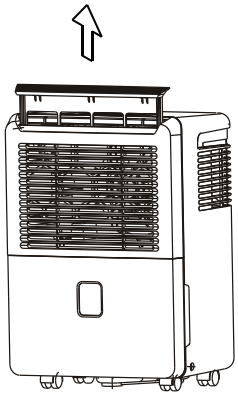
- Do not use a dishwasher to clean the bucket.
- After cleaning, the bucket must be securely in place for the dehumidifier to operate.

**3. Clean the air filter.**

- Remove the filter every two weeks (based on normal operating conditions).
- Remove the filter from the top of the unit (See Fig. 17).
- Wash the filter with clean water. Dry the filter completely in a cool, dry place.
- Re-install the filter.

**CAUTION:** DO NOT operate the dehumidifier without a filter as dirt and lint will clog the unit and reduce performance.

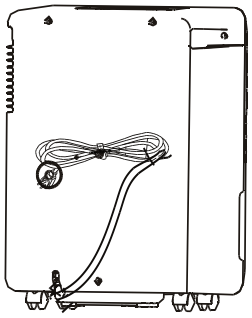
Fig.17



**When not using the unit for long periods of time.**

- After turning off the unit, wait one day before emptying the bucket. This allows any water inside the unit enough time to drain into the bucket before you pack up the unit for storage.
- Clean the main unit, water bucket and air filter. Dry all pieces completely.
- Wrap the cord and bundle it with the band. (See Fig. 18.)
- Cover the unit with a plastic bag.
- Store the unit **upright** in a dry, well-ventilated place.

Fig.18



# TROUBLESHOOTING TIPS

***Before calling for service, please review the chart below.***

| Issue | Possible Solutions |
|---|---|
| **AUTO DEFROST DISPLAYS REPEATEDLY** | Turn off unit and unplug 4-6 hours. |
| | Plug unit back in. Run in normal mode (no Turbo fan, not on Continuous operation) and set humidity level to no more than 5% lower humidity than what the display reads for the room humidity. |
| | Allow time for the unit to run until it successfully reaches initial humidity setting. |
| | Lower humidity another 5% and repeat until desired humidity is reached. (Average setting should be 45-50%.) |
| | Be sure unit humidity is not set too low, unit is not sitting on too cold of a floor and unit is not being used in too cold of a room. (Room should be 41º F or above.) |
| | Be sure there is sufficient air circulation between the unit and the floor. If unit is on a cold, hard floor, unplug the unit and carefully and securely elevate unit a few inches off the floor for better air circulation. |
| **FROST APPEARS ON THE COILS** | This is normal. The dehumidifier has an auto defrost feature. See page 6 for more information. |
| **DEHUMIDIFIER P2 OR 'BUCKET FULL' DISPLAYS** | Verify rubber drain plug is not removed from back of unit if using bucket to collect water. |
| | Check float switch (inch length silver tab in top of unit behind bucket) to ensure it is not cracked, bent, broken, dirty, or obstructed. If bent, re-adjust by re-bending back in place. The switch is located on the left side behind the bucket when you are facing the unit. |
| | Check that unit is level and the filter, vents and bucket are thoroughly clean. |
| | Ensure float is snapped into place inside the bucket and that foam piece is inserted in float. See page 4, Fig. 2. |
| | Unplug unit for at least 5 minutes. Plug back in unit. Remove and return bucket securely, then turn on unit. |
| **DEHUMIDIFIER NOT DRAWING WATER** | Be sure unit is not too large or too small for the area of the room. |
| | When first installed, run unit on Continuous Mode for 24 hours. |
| | Allow enough time for unit to remove moisture. |
| | Set humidity low enough to ensure moisture removal. Setting the unit below 45% is not recommended. |
| | Setting may be the same as actual humidity in room, thus no moisture to remove. |
| | Be sure all doors, windows and other openings are securely closed. |
| | Be sure unit is level and that there is sufficient air circulation around the unit, as well as between unit and floor. |
| | Make sure unit is level and that there are no curtains, blinds, or furniture blocking the unit. |
| | Check that room temperature is 41º F or above. |
| | If unit is near a heat source, such as a clothes dryer, etc., relocate unit. |
| **DEHUMIDIFIER CONSTANTLY CYCLES ON/OFF** | Be sure unit is not too large or too small for the area of the room. |
| | Using unit in much less than its stated coverage will likely cause it to go on and off more frequently. Using too small of a unit will cause it to run constantly. |
| | If the humidity setting and actual humidity in room are cycling right around the same, the unit would go off and on accordingly. |
| | The fan will run for a few minutes after the compressor shuts off. If you have turned the Continuous mode on, the fan and compresser will not turn off; they will run continuously in this mode. |
| | Check that unit is level and the filter, vents and bucket are thoroughly clean and nothing is obstructing them. |
| | Be sure all doors, windows and other openings are securely closed. |
| | Ensure there is sufficient air circulation around the unit, as well as between unit and floor. |
| | Unplug unit for at least 5 minutes. Plug back in unit, remove and return bucket to dehumidifier and turn on. |
| **ES, AS, P2, EC, Eb or E3 APPEARS ON THE DISPLAY** | These are error and protection codes. See page 6 of this manual for more information. |

*Continued on next page.*

# TROUBLESHOOTING TIPS (CONTINUED)

***Before calling for service, please review the chart below.***

| Question | Possible Solutions |
|---|---|
| **DEHUMIDIFIER ALWAYS RUNNING** | Be sure unit is not too large or too small for the area of the room. |
| | Allow enough time for unit to remove moisture. |
| | If set on Continuous Mode, de-select button and set unit to an appropriate humidity setting. |
| | If humidity in room is above the set humidity, then unit will be running. |
| | Be sure all doors, windows and other openings are securely closed. |
| | Be sure unit is level and that there is sufficient air circulation around the unit, as well as between unit and floor. |
| | Make sure there are no curtains, blinds, or furniture blocking the unit. |
| | Lower room temperature. |
| | If unit is near a source of moisture, such as a sink, shower, washing machine, etc., then relocate unit. |
| | Check that filter, vents and bucket are thoroughly clean. |
| **CONTINUOUS DRAIN NOT WORKING PROPERLY** | Be sure hose is CLEAN, pliable and *no longer than 6 feet in length* (recommended). Clear tubing with sizing of 5/8 inch for the outer diameter and 1/2 inch for inner diameter is recommended. |
| | Hose should be secure on both ends, being especially mindful that it is pushed all the way onto connector piece inside unit. |
| | Hose should exit through the back of unit and always be positioned at a DOWNWARD slope to the desired drain location. |
| | If using garden hose attached to adaptor piece, be sure connection is secure throughout. |
| | Be sure nothing is obstructing hose connection and there are no kinks or tears in any of the hosing. |
| | Ensure unit is level and not tilted forward and that bucket is pushed in all the way. Though the unit may appear level, if the surface it sits on is even slightly uneven and the front of the unit is tilted downward, continuous draining may not work. If necessary, slightly prop up the front two wheels of the unit, taking care that the unit does not fall backward. |
| | Check that filter, vents and bucket are thoroughly clean. |
| | If water is going into bucket instead of hose, the unit is working properly. Please double check all of the above and/or un-hook hosing set-up and start again. |
| **UNIT DOES NOT START** | Make sure the dehumidifer's plug is pushed completely into the outlet. |
| | Check the fuse/circuit breaker box in your home. |
| | The bucket is full and needs to be emptied. |
| | The water bucket is not in the proper position. |
| **UNIT MAKES A LOUD NOISE WHEN OPERATING** | Make sure the air filter is clean and not clogged. |
| | Make sure the unit is upright (not tilted) and on a flat, level surface. |
| | If you are using the pump operation, the unit may be noisy for the first 3-5 minutes after the pump begins operating. This is normal. |
| **WATER ON FLOOR** | Check the hose connection points to make sure they are not loose. |
| | If collecting water in the bucket, make sure continuous drain outlet plug has not been removed from back of unit. |
| | Make sure the foam piece has not been removed from the float. Without this piece, the float mechanism will not work properly and the bucket will overflow. See page 4, Fig. 2. |
| **THE PUMP OPERATION "ON" LIGHT IS BLINKING** | Clean the pump filter by rinsing it with water. See page 10, Fig. 15. |
| | Check that the pump hose is not kinked or blocked. |
| | Empty the water that is in the bucket. |

**NOTE:** A highly recommended troubleshoot for any issue in general consists of turning off unit and unplugging for 5 minutes. It is also recommended to try another wall outlet.

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